



THE MILANO

RAVELLO

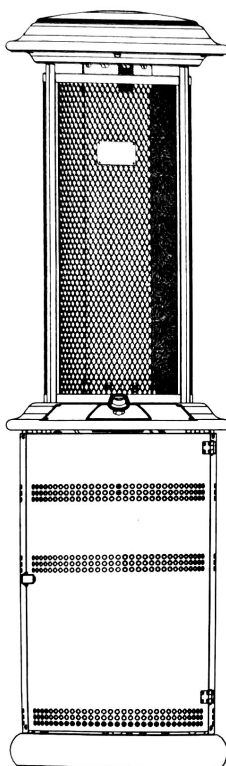
LOUNGE HEATER

LHI-MILANO

OWNER'S MANUAL

SHIPS FULLY ASSEMBLED

OUTDOOR PATIO HEATER · LIQUID PROPANE OR NATURAL GAS



DANGER

If you smell gas:

1. Shut off gas to the appliance.
2. Extinguish any open flame.
3. If odor continues, keep away from the appliance and immediately call your gas supplier or fire department.

WELCOME

Thank you for choosing Lava Heat Italia.

Our founder discovered the original flame tower in Italy and brought it to America, selling the first one door to door to restaurants in Beverly Hills. That heater became a collection, and the collection became a company specified today by Forbes Five-Star hotels, Michelin-starred restaurants, and hospitality groups in more than fifty countries.

We have never been content to import what already exists. Every heater we build is designed here and engineered to be measured — which is why we publish TruBTU™, our own verification standard for what a heater actually delivers at distance, rather than the theoretical output printed on a specification sheet.

The Milano is the compact cylinder of the Ravello Lounge collection, named for Italy's fashion capital and tailored for smaller terraces and intimate seating. It arrives fully assembled; the pages that follow cover unpacking, setup, fuel connection, safe operation and care. Please read this manual before you begin, and keep it for reference.

LAVA HEAT ITALIA

DANGER — CARBON MONOXIDE HAZARD

This appliance can produce carbon monoxide, which has no odor. Using it in an enclosed space can kill you. Never use this appliance in an enclosed space such as a camper, tent, car or home.

WARNING

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance. A propane cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.

WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operation and maintenance instructions thoroughly before installing or servicing this equipment.

WARNING: FOR OUTDOOR USE ONLY

CSA/ANSI Z83.26 · CSA 2.37 – GAS-FIRED OUTDOOR INFRARED PATIO HEATERS

SPECIFICATIONS

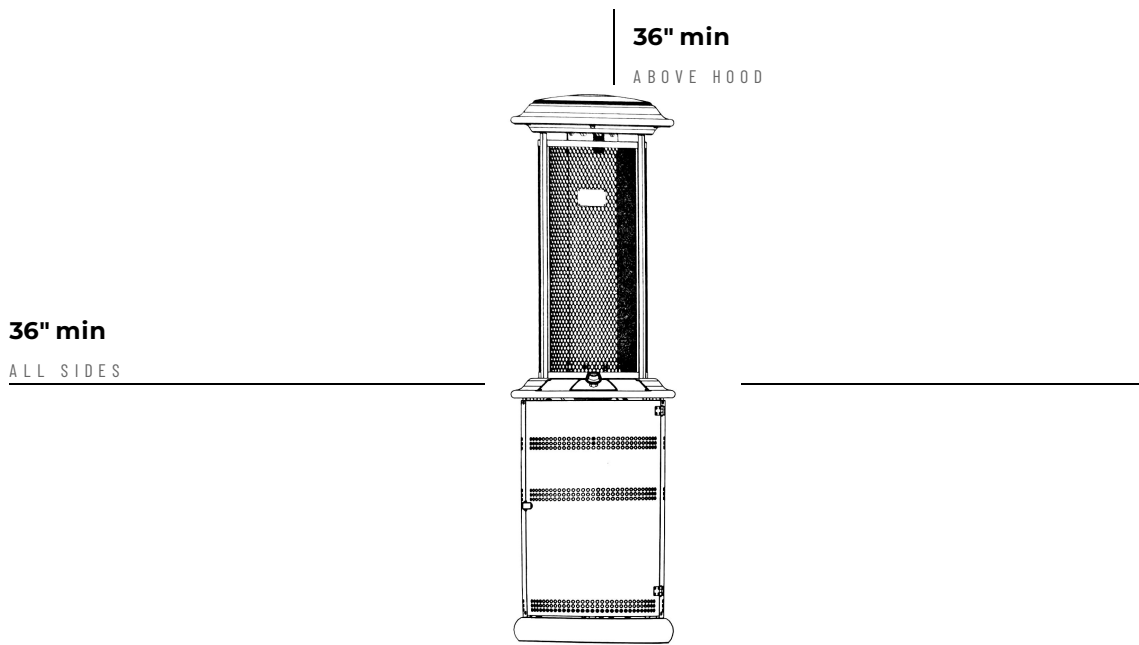
Model	The Milano (LHI-MILANO)
Input rating	36,000 BTU/hr
Heat radius / coverage	6 ft · approx. 113 sq ft
TruBTU™ comfort zone, 50°F evening	68° at 2 ft · 64° at 4 ft · 60° at 6 ft
Fuel	Liquid propane or natural gas — set at the factory
Manifold pressure	LP 11 in W.C. · NG 7 in W.C.
Inlet supply pressure (LP)	5 psi min · 250 psi max
Ignition	Electronic, with manual Clima-Comfort controls · one AA battery
Safety	Flame failure device and anti-tilt switch
Run time	Approx. 10 hours per 20 lb cylinder (LP)
Dimensions	22 × 22 × 70 in · 55 lb
Materials	430-grade stainless emitter · marine-grade 6061-T6 aluminum
Certification	CSA certified to ANSI Z83.26 and CSA 2.37
Minimum clearances	36" from the sides · 36" from the top
Packaged	25 × 25 × 76 in · 70 lb

SAFETY INFORMATION

Please read and understand this entire manual before attempting to assemble, operate or install the product. Keep this manual for future reference and to educate new users of this product. This manual should be read in conjunction with the labeling on the product. Safety precautions are essential when any mechanical or gas-fueled equipment is involved, and are necessary when using, storing and servicing.

Installation of this appliance at altitudes above 2000 ft (610 m) shall be in accordance with local codes, or in the absence of local codes, ANSI Z223.1/NFPA 54 or CSA B149.1.

CLEARANCES



Minimum clearances from any combustible surface or material.

CODES AND STANDARDS

United States	Installation must conform with local codes or, in their absence, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54.
Canada	Installation must conform with the Natural Gas and Propane Installation Code, CSA B149.1, or the Propane Storage and Handling Code, B149.2.
Cylinder standard	Cylinders must comply with U.S. DOT specifications for LP-gas cylinders or CAN/CSA-B339, with a listed Overfilling Prevention Device (OPD) and a protective collar around the valve.

DANGER — CARBON MONOXIDE HAZARD

This heater is a combustion appliance. All combustion appliances produce carbon monoxide during combustion. Used and maintained in accordance with all warnings and instructions, this product produces extremely minute, non-hazardous amounts. Do not block air flow into or out of the heater. Carbon monoxide poisoning produces flu-like symptoms, watery eyes, headaches, dizziness, fatigue and possibly death. You cannot see it and you cannot smell it. If these symptoms are present during operation, get fresh air immediately. For outdoor use only.

DANGER — EXPLOSION AND FIRE HAZARD

Keep solid combustibles such as building materials, paper or cardboard a safe distance from the heater. Provide adequate clearances around air openings into the combustion chamber. Never use the heater in spaces which contain volatile or airborne combustibles. Minimum clearances from combustible materials: 36" (91 cm) from the sides and 36" (91 cm) from the top.

DANGER — PROPANE STORAGE

Never store propane near high heat, open flames, pilot lights, direct sunlight or where temperatures exceed 120°F (49°C). Propane vapors are heavier than air and can accumulate in low places. If you smell gas, leave the area immediately. Never install or remove a cylinder while the heater is lit, near a flame, or while it is hot to touch. Store the cylinder outdoors in a well-ventilated space out of reach of children.

WARNING — BURN HAZARD

Never leave the heater unattended when hot or in use, and keep it out of reach of children. Alert children and adults to the hazards of high surface temperatures. Do not touch or move the heater for at least 45 minutes after use. Do not hang clothing or other flammable materials from the heater.

WARNING — CALIFORNIA PROPOSITION 65

This product can expose you to chemicals including carbon monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

WARNING — SMALL BATTERIES

This product contains a small battery. Swallowed batteries can cause a choking hazard. Seek immediate medical attention if a battery is swallowed or inhaled. Keep children away from small batteries.

CAUTION — SERVICE SAFETY

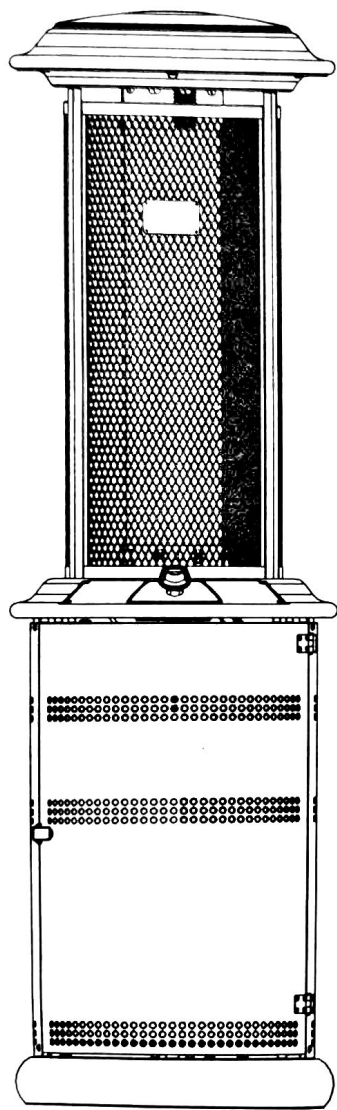
Keep all connections and fittings clean and make sure the cylinder valve outlet is clean. During assembly, check all connections and fittings for leaks using soapy water — never use a flame. Use as a heating appliance only. Never alter it in any way.

CAUTION — SHELTER

An appliance may be installed with shelter no more inclusive than: (a) with walls on all sides but no overhead cover; (b) within a partial enclosure with an overhead cover and no more than two side walls; or (c) within a partial enclosure with an overhead cover and three side walls, as long as 30 percent or more of the horizontal periphery is permanently open.

PACKAGE CONTENTS

The Milano arrives fully assembled. Remove all transit protection — foam, cardboard and wrap — before use, and check that the heater is undamaged. If anything is missing or damaged, do not use the heater — contact Lava Heat Italia.



Milano heater, assembled	1
Gas hose and regulator (LP), fitted	1
Cylinder retaining bracket (12), fitted	1
Owner's manual	1

Not supplied: a standard 20 lb (9 kg) propane cylinder and one AA battery for the igniter. The protective cover is sold separately.

LOCATING THE HEATER

This heater is intended for heating outdoor patios, decks, pools and open working areas. Place it on level, firm ground with adequate fresh-air ventilation, and observe the clearances on page 4 at all times. Never operate it in an explosive atmosphere, and keep it away from areas where gasoline or other flammable liquids or vapors are stored or used.

Items left above, beside or under the heater while it is in use are subject to radiant heat and could be seriously damaged.

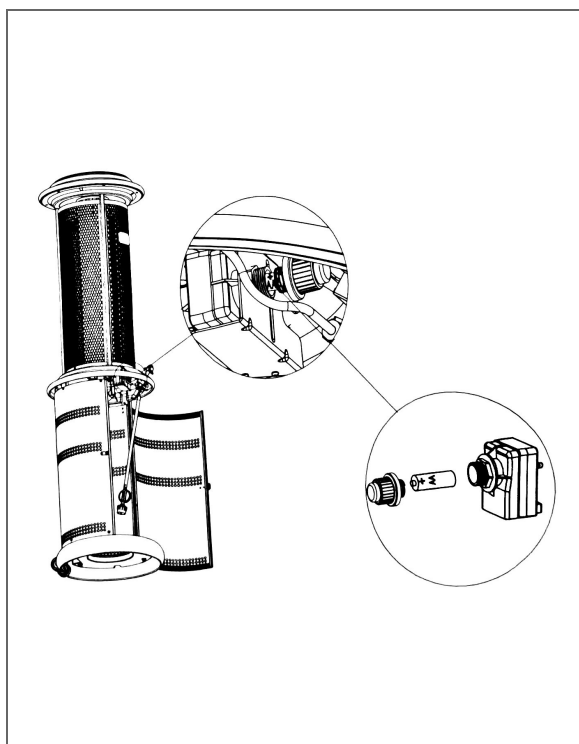
SETUP

The Milano is assembled at the factory. Remove all transit protection before operating it, then complete the two steps that follow: install the igniter battery, and connect the gas supply on the fuel page.

1 Install the battery

Open the door and unscrew the igniter cap behind the control panel.

Insert one AA battery (not supplied) with the positive end out, and refit the cap.



FUEL CONNECTION — PROPANE

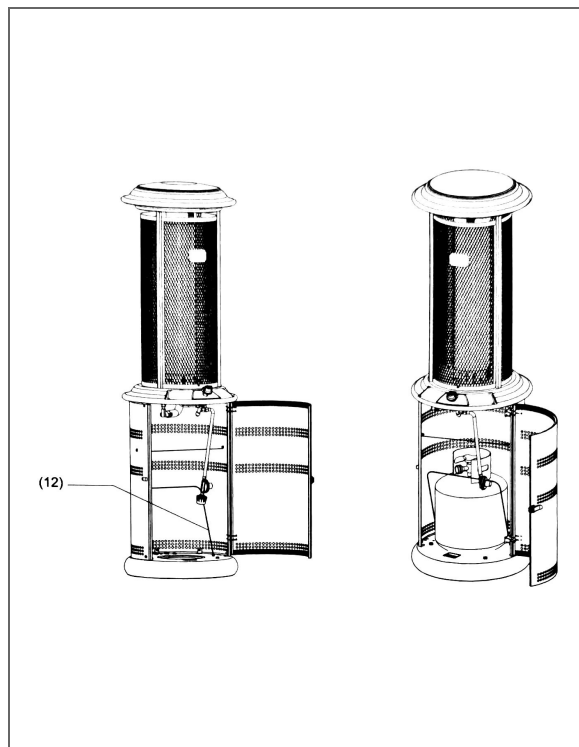
For units configured for liquid propane (LP). If your Milano is configured for natural gas, turn to the next page. Check the rating plate inside the cylinder enclosure to confirm the fuel before you connect any supply.

2 Connect the propane cylinder

Open the door and stand a standard 20 lb (9 kg) propane cylinder on the cabinet floor, behind the retaining bracket (12).

Screw the regulator onto the cylinder valve and tighten by hand. Do not cross-thread the connection.

Leak test every connection (see Leak Check), then close the door.



CYLINDER REQUIREMENTS

- Standard 20 lb (9 kg) propane vapor-withdrawal cylinder, constructed and marked per U.S. DOT specifications for LP-gas cylinders, or CAN/CSA-B339.
- Listed Overfilling Prevention Device (OPD), a protective collar around the valve, and a connection compatible with the appliance.
- Never use a dented, rusted or damaged cylinder. Never fill a cylinder beyond 80% of capacity.
- Replace the dust cap on the valve outlet whenever the cylinder is not in use.

WARNING

Do not store a spare LP-gas cylinder under or near this appliance. Never store a cylinder in an enclosed area such as a house, garage, basement or shed. Store it outdoors in a well-ventilated area, out of direct sunlight and below 120°F (49°C).

NATURAL GAS INSTALLATION

Natural-gas units connect to a fixed supply line; no cylinder is used.

PROFESSIONAL INSTALLATION ONLY

Connection to the natural-gas supply must be made by a qualified, licensed gas technician in accordance with local codes — or, in their absence, ANSI Z223.1/NFPA 54 (US) or CSA B149.1 (Canada).

INSTALLATION REQUIREMENTS

- Supply pressure: 7 in W.C. nominal natural gas at the appliance inlet.
- Use only the natural-gas hose, regulator and fittings supplied or specified by Lava Heat Italia for this model.
- Install a dedicated, accessible manual shut-off valve in the supply line within reach of the heater.
- Route the hose so it cannot be strained, pinched or touched by hot surfaces, and secure the heater so the connection cannot be pulled.
- Leak test every joint made during installation before first lighting (see Leak Check).
- Purge air from the supply line at first start, then follow the lighting procedure.

OPERATING ON NATURAL GAS

Lighting, operation and care are the same as for propane once the supply is connected. Wherever this manual says to open or close the cylinder valve, open or close your supply shut-off valve instead. Close the shut-off valve whenever the heater is not in use and before any cleaning or service.

WARNING — NO FIELD CONVERSION

Fuel configuration is set at the factory. Never connect a natural-gas unit to propane, or a propane unit to natural gas — the injector and valve are fuel-specific. Confirm the fuel on the rating plate inside the cylinder enclosure before connecting any supply.

RAVELLO
LOUNGE HEATER

THE MILANO

36,000 BTU/HR

A 6 ft radius of directed warmth — roughly 113 sq ft of usable comfort.

CLIMA-COMFORT CONTROLS

Electronic ignition with manual variable control, low through to high.

TAILORED TO THE TERRACE

A compact 22 in cylinder, sized for balconies and intimate seating.

BUILT FOR SALT AIR

Marine-grade 6061-T6 aluminum, 500 hours of ASTM B117 salt-spray testing.

CONCEALED CYLINDER

The 20 lb tank sits out of sight behind a hinged door.

TEN HOURS

A full evening's run, and then some, from a single 20 lb cylinder.

COMFORT ZONE
ON A 50°F EVENING

68°

64°

60°

2 FT

4 FT

6 FT



TRU BTU



6 FT RADIUS

Frame and structure carry a lifetime limited warranty.

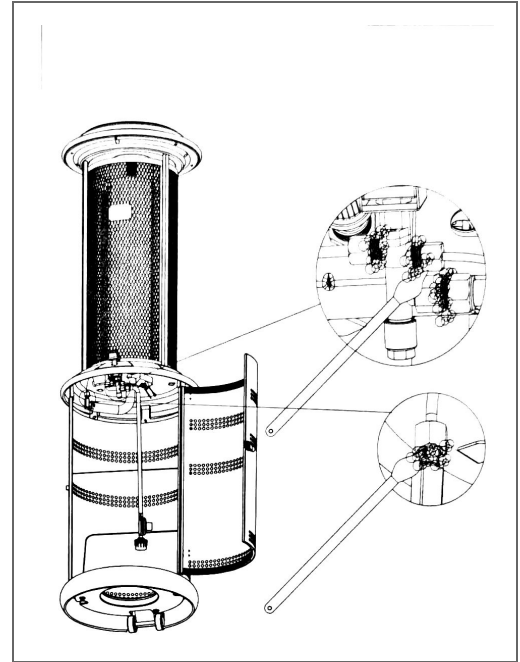
LEAK CHECK

Every gas connection on the heater is leak-checked at the factory. You must check the connections you make — hose, regulator and cylinder — before first use, after connecting a new cylinder, and whenever a connection has been loosened or removed. Perform all leak tests outdoors, extinguish all open flames and never smoke while testing.

1. Make 2–3 oz of leak check solution — one part liquid dish soap to three parts water.
2. Make sure the control knob is OFF.
3. Brush or spray the solution onto the hose connection, the regulator, and the regulator-to-cylinder connection (LP) — or every joint made during installation (NG).
4. Open the cylinder valve (LP) or supply shut-off valve (NG) and look for bubbles.

If bubbles appear at any connection there is a leak. Close the gas immediately, tighten the connection and test again. If bubbles persist, do not use the heater — contact Lava Heat Italia, or on natural gas, your gas technician. If no bubbles appear, the connections are secure; wipe off the solution before lighting.

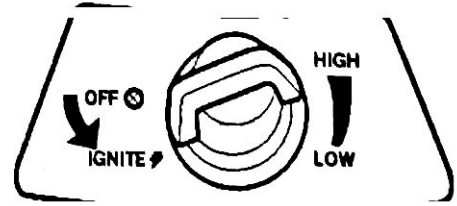
The cylinder supply system must be arranged for vapor withdrawal. Replace the hose assembly before use if it shows excessive abrasion or wear, or is damaged. At least once a year, have the entire gas path inspected by a qualified service technician.



LIGHTING

Do not operate the heater until you have read and understood all of the precautions in this manual. Before turning the gas on, make sure the heater is outdoors, the area is free of combustible materials and flammable vapors, all connections are tight and leak-free, and any component removed during assembly or service has been refitted. If relighting a hot heater, always wait at least 5 minutes.

- A. Turn the control knob to OFF.
- B. Open the cylinder valve (LP) or supply shut-off valve (NG) fully.
- C. Push the knob down and turn it counter-clockwise to IGNITE. Keep holding it down; the igniter sparks until the pilot lights.
- D. Once the pilot is lit, keep the knob pressed for up to 30 seconds to heat the flame sensor, then release it.
- E. Push the knob in slightly and turn it to LOW. Check the flame is stable, then set the heat between LOW and HIGH.



If the pilot does not light, turn the knob to OFF, wait 5 minutes for gas to clear, and repeat. The first ignition takes longer while air purges from the line. If the igniter fails, the pilot can be lit with a long match through the ignition hole provided.

If the flame goes out accidentally, from wind or another cause, the flame safety device shuts off the gas within 90 seconds. The burner may be noisy when first lit; turn the knob to LOW, then up to the heat you want. Smoke and odor from manufacturing oils are normal on first use and clear in about 30 minutes. The emitter screen glows bright red, with tongues of blue flame at the burner; the heater should never produce thick black smoke. If black deposits build up on the emitter or dome, turn the heater off and have it serviced before using it again.

SHUT DOWN

A. Push in and turn the control knob clockwise to OFF.

B. Close the cylinder valve (LP) or supply shut-off valve (NG).

Wait 5 minutes before relighting. The heater will be hot after use: do not touch or move it for at least 45 minutes. Some discoloration of the emitter screen after use is normal. If you smell gas, turn the knob and the gas supply OFF, wait 5 minutes, and if the odor continues call your gas supplier.

CARE AND MAINTENANCE

Keep exterior surfaces clean using warm soapy water and a soft cloth. Never use flammable or corrosive cleaning agents. Keep the area around the burner and pilot assembly dry at all times. Do not submerge the control valve; if the gas control is submerged in water it must be replaced.

Keep the appliance area clear of combustible materials. Do not obstruct the flow of combustion and ventilation air. Keep the ventilation openings of the cylinder enclosure free of debris, and keep controls, burner and air passageways clean.

Spiders and insects can nest in the burner or orifices. This dangerous condition can damage the heater and render it unsafe. Clean burner holes with a heavy-duty pipe cleaner; compressed air may help clear smaller particles. Clean the reflector and burner screen with warm soapy water if carbon deposits develop.

In a salt-air environment corrosion occurs more quickly than normal. Check for corroded areas frequently and repair them promptly. A fitted cover is strongly recommended. Inspect the entire hose assembly at least annually for abrasion, cuts or wear, and leak test any suspect areas.

The igniter runs on one AA battery behind the control panel. If the start button no longer sparks, replace the battery before troubleshooting further.

Between uses, turn the control knob off, disconnect the cylinder (LP) or close the supply shut-off (NG), and store the heater upright in an area sheltered from inclement weather. Wait until the heater is completely cool before covering. Never leave a propane cylinder exposed to direct sunlight or excessive heat.

Only a qualified service person should repair gas passages and associated components. Always allow the heater to cool before attempting service, and use only the regulator, hose and replacement parts specified by Lava Heat Italia.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Pilot will not light	Gas supply is closed	Open the cylinder valve (LP) or supply shut-off (NG)
	Cylinder is empty	Refill or replace the cylinder
	Air in the supply system	Hold the knob down at IGNITE to purge air from the line
	Loose connection	Check all fittings, then leak test
	No spark at the igniter	Replace the AA battery; if it still will not spark, light with a long match through the ignition hole
Pilot will not stay lit	Knob released too soon	Hold the knob in for up to 30 seconds after the pilot lights
	Debris around the pilot	Clean the area around the pilot
	Loose connection or gas leak	Tighten the connection and perform a leak check
	Thermocouple fault	Contact Lava Heat Italia customer service
	Low fuel pressure	The cylinder is near empty — replace it
Burner will not light	Pressure is low	The cylinder is near empty — replace it
	Control knob not on	Turn the knob to LOW
	Pilot assembly bent or out of position	Contact Lava Heat Italia customer service
Flame is very small	Supply pressure too low	Refill or replace the cylinder
Thick black smoke or yellow flame	Blocked burner or air passages	Turn off, allow to cool, and clean the burner and orifices
Uneven glow or popping noises	Spiders or insects in the burner	Clean the burner and orifices

The heater operates at reduced efficiency below 40°F (5°C).

WARRANTY

Every Lava Heat Italia heater is backed by the Lava Heat Italia warranty program, effective from the date of purchase as shown on the purchaser's receipt.

Frame and structure	Lifetime limited
Parts	5 years limited
Finish	5 years limited
Burner and glass	1 year limited
Gas hose and regulator assembly	1 year limited

Parts only — labor and freight are not included. Residential and commercial installations are covered on identical terms.

This warranty is valid for the original consumer purchaser. Defects or damage caused by the use of other than genuine parts are not covered. The warranty is void if damage or failure is caused by accident, alteration, misuse, abuse, or incorrect installation or removal. Full terms at lavaheat.com/warranty-and-product-care.

WHEN YOU RECEIVE YOUR PRODUCT

If your product is damaged, requires technical support or replacement parts, or if you have a sales question or product feedback, contact Lava Heat Italia directly.

DO NOT RETURN THIS PRODUCT TO THE RETAILER.

Lava Heat Italia · 940 W. Washington Blvd., Los Angeles, CA 90015
310-559-1700 · customerservice@lavaheat.com · lavaheat.com

REPLACEMENT PARTS

Parts are listed by the letter used throughout this manual. When ordering, quote the model (LHI-MILANO), the part letter and the finish. Consumable items and items damaged in service are not covered by the warranty.

LAVA HEAT ITALIA · ESTABLISHED 2001
940 W. WASHINGTON BLVD., LOS ANGELES, CA 90015
310.559.1700 · [CUSTOMERSERVICE@LAVAHEAT.COM](mailto:customerservice@lavaheat.com)
LAVAHEAT.COM · MADE IN CHINA

SERVICE RECORD

Keep this page with the manual. Quote the model and serial number in any correspondence.

Model	The Milano (LHI-MILANO)
Serial number	
Finish	
Fuel	
Date of purchase	
Dealer	
Installed by	

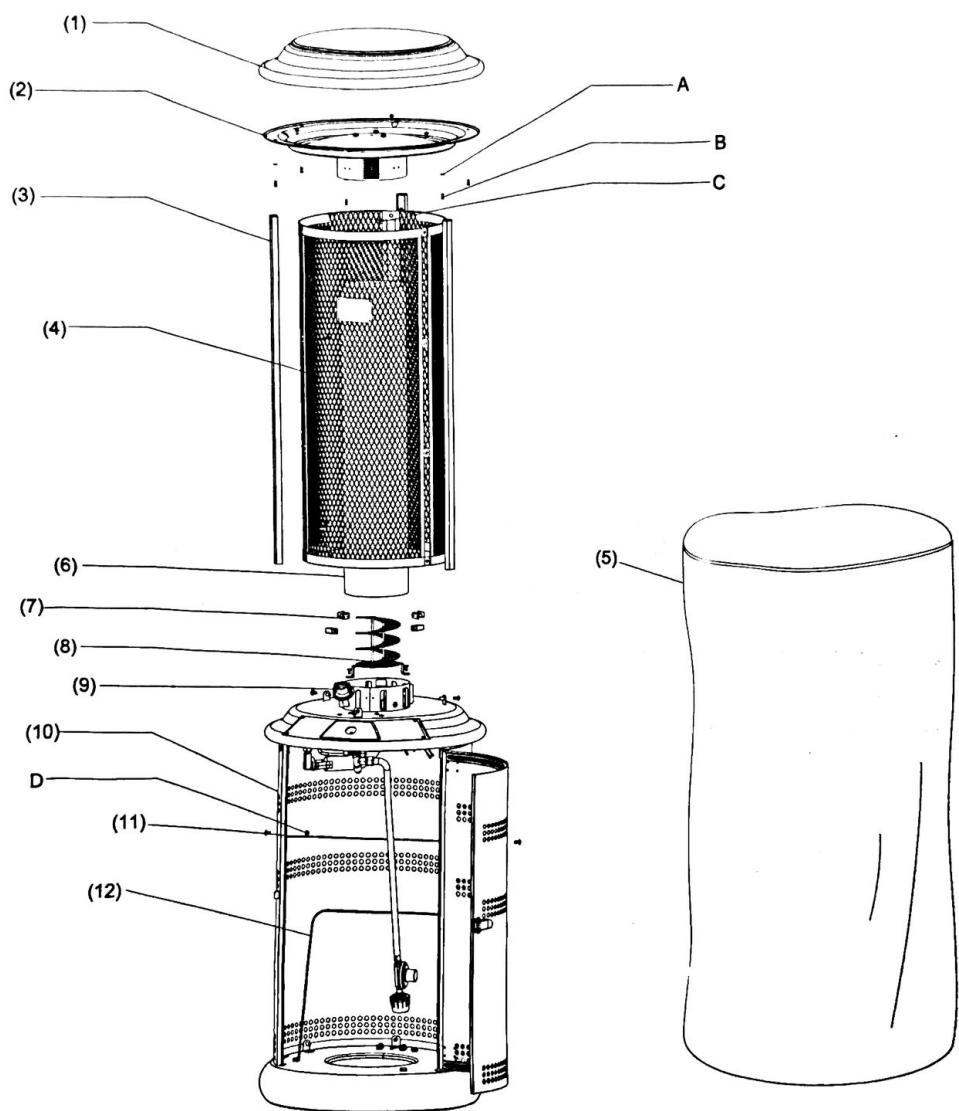
ANNUAL INSPECTION

Date	Carried out by	Notes
Date	Carried out by	Notes
Date	Carried out by	Notes
Date	Carried out by	Notes
Date	Carried out by	Notes
Date	Carried out by	Notes

The heater should be inspected before use and at least annually by a qualified service person. Inspect the entire hose assembly at least annually for abrasion, cuts or wear, and leak test any suspect areas.

REPLACEMENT PARTS

Parts are numbered as below. When ordering, quote the model (LHI-MILANO), the part number and the finish.



1 · Top dome	1
2 · Top plate	1
3 · Support post	3
4 · Emitter screen panel	3
6 · Burner tube	1
7 · Tube clip	4

8 · Flame spiral	1
9 · Control knob	1
10 · Base cabinet with burner and door	1
11 · Cylinder support rod	1
12 · Cylinder retaining bracket	1



LUXURY OUTDOOR HEATING · ESTABLISHED 2001

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